



*Commonwealth of Virginia*  
*VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY*  
BLUE RIDGE REGIONAL OFFICE  
901 Russell Drive, Salem, Virginia 24153  
(540) 562-6700 FAX (540) 562-6725  
[www.deq.virginia.gov](http://www.deq.virginia.gov)

Matthew J. Strickler  
Secretary of Natural Resources

David K. Paylor  
Director  
(804) 698-4000

Robert J. Weld  
Regional Director

March 13, 2020

Mr. Hugh McMillan  
Controller  
Frank Chervan, Inc.  
2005 Greenbrier Avenue  
Roanoke, VA 24013-2628

Location: City of Roanoke  
Registration No.: 20523

Dear Mr. McMillan:

Attached is a renewal Title V permit to operate your facility pursuant to 9VAC5 Chapter 80 Article 1 of the Virginia Regulations for the Control and Abatement of Air Pollution. The attached permit will be in effect beginning March 13, 2020.

In the course of evaluating the application and arriving at a final decision to issue this permit, the Department of Environmental Quality (DEQ) deemed the application complete on December 19, 2019 and solicited written public comments by placing a newspaper advertisement in *The Roanoke Times* on January 28, 2020. The thirty-day required comment period, provided for in 9VAC5-80-270, expired on February 27, 2020.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

To review any federal rules referenced in the attached permit, the US Government Publishing Office maintains text of these rules at [www.cfr.gov](http://www.cfr.gov), Title 40 Parts 60 and 63.

This permit approval to operate shall not relieve Frank Chervan, Inc. of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. Please consult the relevant regulations for additional requirements for such requests.


As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director  
Department of Environmental Quality  
P. O. Box 1105  
Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact the permit writer, Erin Rau at 540-562-6773 or [erin.rau@deq.virginia.gov](mailto:erin.rau@deq.virginia.gov).

Sincerely,

  
for Robert J. Weld  
Regional Director

Attachment: Permit BRRO-20523

cc:

Riley Burger, EPA Region III ([burger.riley@epa.gov](mailto:burger.riley@epa.gov))

Terry Shutt, Frank Chervan, Inc. ([tshutt@chervan.com](mailto:tshutt@chervan.com))

Susan Tripp, DEQ Office of Air Permit Programs (OAPP) ([susan.tripp@deq.virginia.gov](mailto:susan.tripp@deq.virginia.gov))

Margaret Wagner, DEQ BRRO Air Compliance Manager (electronic)



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The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. Please consult the relevant regulations for additional requirements for such requests.

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If you have any questions concerning this permit, please contact the permit writer, Rick Wilson at 540-562-6719 or [rick.wilson@deq.virginia.gov](mailto:rick.wilson@deq.virginia.gov).

Sincerely,



Robert J. Weld  
Regional Director

Attachment: Permit BRRO-20523

cc:

Riley Burger, EPA Region III ([burger.riley@epa.gov](mailto:burger.riley@epa.gov))

Terry Shutt, Frank Chervan, Inc. ([tshutt@chervan.com](mailto:tshutt@chervan.com))

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**Federal Operating Permit  
Article 1**

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: **Frank Chervan, Inc.**  
Facility Name: **Frank Chervan, Inc.**  
Facility Location: **2005 Greenbrier Avenue, Roanoke, Virginia**  
Registration Number: **20523**  
Permit Number: **BRRO-20523**

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act

March 13, 2020

Effective Date

March 12, 2025

Expiration Date

  
Robert J. Weld, Regional Director

3/13/2020  
Signature Date

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## **Facility Information**

### **Permittee**

Frank Chervan, Inc.  
2005 Greenbrier Avenue  
Roanoke, VA 24013-2628

### **Responsible Official**

Hugh McMillan  
Controller

### **Facility**

Frank Chervan, Inc.  
2005 Greenbrier Avenue  
Roanoke, VA 24013-2628

### **Contact Person**

Terry Shutt  
540-586-5600  
tshutt@chervan.com

### **County-Plant Identification Number: 51-770-00088**

Facility Description: NAICS 337211 – Wood Office Furniture Manufacturing This industry comprises establishments primarily engaged in manufacturing wood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

Frank Chervan, Inc. is a conventional wood office furniture manufacturing plant. The plant receives and dries rough sawn lumber, performs various woodworking and furniture assembly operations, and finishes the assembled furniture (primarily spray stains and spray lacquer). Finishes are primarily spray booth applied HAP compliant VOC based wood furniture coatings. The facility uses wood glue and spray contact adhesives in their process. All wood dust emissions are controlled by either closed loop cyclones or baghouses. Most heat is supplied by a boiler firing the plant's dry process wood byproduct (wood fuel) that is fed pneumatically from the plant's wood fuel storage silo. A smaller natural gas fired boiler is also used by the facility. Oversized wood is hogged before entering the fuel storage silo.

Frank Chervan, Inc. is located in the City of Roanoke, Virginia. Roanoke has been designated by the U.S. Environmental Protection Agency (EPA) as "attainment" or "unclassified" for all criteria pollutants. The location of the main process area is approximately 596.67 kilometers (km) East, 4,125.25 km North (Universal Transverse Mercator coordinates, Zone 17, South American Datum 1927).



## Emission Units

Process Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Dates
<b>Fuel Burning Equipment</b>							
B1	EP-B1	1983 Hurst boiler, primarily furniture plant dry byproduct wood fuel, coal backup.	33.5 MMBtu/hr input (2.09 tph wood fuel or 1.34 tph coal); 26,000 lb/hr steam output	Multicyclone	CD-MC1	PM/PM-10	May 6, 1983 Permit Document & September 15, 2014 Permit Document
EG-1	EG-1	Emergency Diesel Fire Pump	235 HP	-	-	-	-
<b>Woodworking Operations</b>							
ES-WD	EP-BH1 - EP-BH3	Woodworking Equipment (including sanders, saws, mills, molders, planers and hogs)	-	3 Baghouses. Closed loop cyclones are used on the wood fuel transfers.	CD-BH1 - CD-BH3	PM/PM-10	May 6, 1983 Permit Document
<b>Finishing &amp; Adhesive Operations</b>							
ES-F	EP-S1 - EP-S10	Finishing Equipment (including ten spray booths, spray guns and five steam-heated curing ovens)	500 lbs/hr VOC	Overspray particulate control.	CD-SB1 - CD-SB10	PM/PM-10	May 6, 1983 Permit Document & September 15, 2014 Permit Document
ES-SA	EP-O1 - EP-O5	Spray Adhesive Equipment (including five spray booths and spray guns)	-	Overspray particulate control.	CD-O1 - CD-O5	PM/PM-10	September 15, 2014 Permit Document
<b>Kilns</b>							
ES-K	-	Three steam-heated lumber drying kilns	40,000 bd-ft/cycle - 14 day cycles	-	-	-	-

\*The Size/Rated capacity and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

## Fuel Burning Equipment Requirements – Boiler (B1)

### Limitations

1. **Fuel Burning Equipment Requirements – Limitations** – Particulate emissions from the wood fuel/coal fired boiler (B1) shall be controlled by the use of a multicyclone. The multicyclone shall be provided with adequate access for inspection and shall be in operation when the boiler is operating.  
(9VAC5-80-110, Condition 1 of the May 6, 1983 Permit Document and Condition 2 of the September 15, 2014 Permit Document)
2. **Fuel Burning Equipment Requirements – Limitations** – Coal consumption in the boiler (B1) shall not exceed 900 tons per year, calculated as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.  
(9VAC5-80-110, Condition 5 of the May 6, 1983 Permit Document and Condition 3 of the September 15, 2014 Permit Document)
3. **Fuel Burning Equipment Requirements – Limitations** – The wood residue burned in the boiler (B1) shall not exceed 6,200 tons per year, calculated as the sum of each consecutive 12-month period. It shall be dry and hogged or smaller as fed to the boiler. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.  
(9VAC5-80-110, Condition 7 of the May 6, 1983 Permit Document and Condition 4 of the September 15, 2014 Permit Document)
4. **Fuel Burning Equipment Requirements – Limitations** – The sulfur and ash content of the coal burned in the boiler (B1) shall not exceed 1.1 percent and 7 percent by weight average, respectively per shipment of coal.  
(9VAC5-80-110 and Condition 6 of the May 6, 1983 Permit Document)
5. **Fuel Burning Equipment Requirements – Limitations** – The approved fuels for this unit (B1) are wood residue and coal not to be burned in combination. Any change from these fuels may require a permit to modify and operate.  
(9VAC5-80-110 and Condition 15 of the May 6, 1983 Permit Document)
6. **Fuel Burning Equipment Requirements – Limitations** – Emissions from the operation of Boiler B1 shall not exceed the limits specified below:

Pollutant	Heat Input Emission Limit (lb/MMBtu)	Hourly Emission Limit (lb/hr)
Particulate Matter (PM)	0.24	8.0
Sulfur Dioxide (SO2)	---	56

(9VAC5-80-110, Conditions 3 and 4 of the May 6, 1983 Permit Document)

7. **Fuel Burning Equipment Requirements – Limitations** – There must be no fugitive dust emitted from fuel or ash storage, handling, or transfer.  
(9VAC5-80-110 and Condition 11 of the May 6, 1983 Permit Document)
8. **Fuel Burning Equipment Requirements – Limitations** – Visible emissions from the boiler B1 stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.  
(9VAC5-50-20, 9VAC5-50-80 and 9VAC5-80-110)

### Monitoring

9. **Fuel Burning Equipment Requirements - Visible Emissions Monitoring** - Daily observations of the presence of visible emissions from the boiler B1 stack shall be made when the boiler is operating. The presence of visible emissions shall require the permittee to:
  - a. Take timely correction action such that the unit resumes operation with no visible emissions, or,
  - b. Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are at or below the limits contained in Condition 8. If any of the 15-second observations exceeds 20 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to the opacity limits.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions the results of all VEEs, any necessary corrective action, and the name of the observer. If the boiler has not been operated for the entire day, it shall be noted in the log book.  
(9VAC5-50-20 E, 9VAC5-80-110 E and K)

10. **Fuel Burning Equipment Requirements – Monitoring** – An annual inspection of all internal and external components of the boiler B1 multicyclone shall be conducted by the permittee to insure the structural integrity. The multicyclone shall be provided with adequate access of inspection and shall be in operation when the boiler is operating.  
(9VAC5-80-110 and Condition 5 of the September 15, 2014 Permit Document)
11. **Fuel Burning Equipment Requirements - Operation & Maintenance Procedures** – All air pollution control equipment operators will be trained in the proper operation of all such equipment. The source will maintain records of all required training. The source will develop, in writing, good operating procedures for all air pollution control equipment. A maintenance schedule for all such equipment will be established and made available to the Blue Ridge Regional Office for review. Records of service and maintenance will be maintained on file for a period of five years.

(9VAC5-80-110, Conditions 16 and 17 of the May 6, 1983 Permit Document)

## **Recordkeeping**

12. **Fuel Burning Equipment Requirements – On-Site Records** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
- a. The permittee shall obtain and maintain records of all certification or alternative statement from the fuel supplier with each shipment of coal. Each fuel supplier certification or alternative statement shall include the following:
    - i. The name of the fuel supplier,
    - ii. The date on which the coal was received,
    - iii. The tons of coal delivered in the shipment,
    - iv. The sulfur content of the coal; and
    - v. The ash content of the coal.
  - b. Monthly and annual throughput of wood fuel and coal for the wood fuel/coal boiler (B1). Annual throughputs shall be calculated monthly as the sum of each consecutive 12-month period.
  - c. Monthly and annual emissions in tons from the wood fuel/coal boiler (B1). Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period. The emission factors and control efficiencies used in these emission calculations shall be identified and readily available.
  - d. Scheduled and unscheduled maintenance and operator training.
  - e. Records of annual inspections of the multicyclone.
  - f. Results of all stack tests, visible emission monitoring and evaluations, and performance evaluations.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9VAC5-40-50, 9VAC5-50-50, 9VAC5-80-110 E and K, and Condition 7 of the September 15, 2014 Permit Document)

## **MACT Subpart JJJJJJ - Industrial, Commercial, and Institutional Boilers Area Sources - Fuel Burning Equipment – Boiler (B1)**

### **Emission Limitations and Work Practice Standards**

13. **MACT Subpart JJJJJJ – Limitations** - The permittee shall comply with the applicable requirements of National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources 40 CFR 63, Subpart JJJJJJ as listed in Conditions 14 through 20 by the applicable compliance date as specified in 40 CFR 63.11196. (9VAC5-80-110 and 40 CFR Part 63.11196)
14. **MACT Subpart JJJJJJ – Emission Limits, Work Practice Standards, Emission Reduction Measures, and Management Practices** - The permittee shall meet the applicable Emission Limits, Work Practice Standards, Emission Reduction Measures, and Management Practices specified in 40 CFR 63.11200 - 11201. (9VAC5-80-110 and 40 CFR 63.11200 - 11201)

### **General Compliance Requirements**

15. **MACT Subpart JJJJJJ – General Compliance** – The permittee shall comply with the General Compliance Requirements specified in 40 CFR 63.11205. (9VAC5-80-110 and 40 CFR 63.11205)

### **Testing, Fuel Analyses, Initial Compliance and Continuous Compliance Requirements**

16. **MACT Subpart JJJJJJ – Testing, Fuel Analyses and Initial Compliance** - The permittee shall comply with the testing, fuel analyses and initial compliance requirements specified in 40 CFR 63.11210 - 11214. (9VAC5-80-110 and 40 CFR 63.11210 - 11214)
17. **MACT Subpart JJJJJJ – Subsequent Performance Tests, Fuel Analyses and Continuous Compliance** – The permittee shall conduct subsequent performance tests, fuel analyses and continuous compliance requirements as specified in 40 CFR 63.11220 - 11223. (9VAC5-80-110 and 40 CFR 63.11220 - 11223)

### **Monitoring, Installation, Operation, and Maintenance Requirements**

18. **MACT Subpart JJJJJJ – Monitoring, Installation, Operation, and Maintenance** - The permittee shall demonstrate continuous compliance with the monitoring, installation, operation, and maintenance requirements as specified in 40 CFR 63.11224. (9VAC5-80-110 and 40 CFR 63.11224)

### **Notifications, Reporting and Recordkeeping Requirements**

19. **MACT Subpart JJJJJJ – Notifications, Reporting and Recordkeeping** - The permittee shall submit notifications as specified in 40 CFR 63.11225.

(9VAC5-80-110 and 40 CFR 63.11225)

### **General Provisions Requirements**

20. **MACT Subpart JJJJJJ – General Provisions** - The permittee shall comply with the applicable General Provisions as specified in 40 CFR 63.11235.  
(9VAC5-80-110 and 40 CFR 63.11235)

### **Fuel Burning Equipment Requirements – Emergency Engine (EG-1)**

#### **Limitations**

21. **Fuel Burning Equipment Requirements - Limitations** - Visible emissions from the emergency diesel fire pump (EG-1) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.  
(9VAC5-50-20, 9VAC5-50-80 and 9VAC5-80-110)
22. **Fuel Burning Equipment Requirements - Limitations** - The approved fuel for the emergency diesel fire pump (EG-1) is diesel fuel. A change in the fuel may require a permit to modify and operate.  
(9VAC5-80-110)

#### **Monitoring**

23. **Fuel Burning Equipment Requirements - Monitoring** - At least one time in any week the emergency diesel fire pump operates an observation of the presence of visible emissions from the emergency diesel fire pump (EG-1) shall be made. The presence of visible emissions shall require the permittee to:
- Take timely corrective action such that the unit resumes operation with no visible emissions, or,
  - Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are 20 percent opacity or less. If any of the 15-second observations exceeds 20 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to the opacity limits.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the emergency diesel fire pump has not been operated for the entire week, it shall be noted in the log book.  
(9VAC5-50-20 E, 9VAC5-80-110 E and K)

## **Recordkeeping**

24. **Fuel Burning Equipment Requirements - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include, but are not limited to:
- a. Record of the visible emissions observations required in Condition 23.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9VAC5-80-110 E and K)

## **MACT Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engine Requirements – Emergency Engine (EG-1)**

### **Emission and Operating Limitations**

25. **MACT Subpart ZZZZ - Emission and Operating Limitations** - The permittee shall comply with the emission limitations and other requirements in Table 2c (1) to Subpart ZZZZ of Part 63. (9VAC5-80-110 and 40 CFR 63.6602)

### **Initial Compliance Requirements**

26. **MACT Subpart ZZZZ - Operation & Maintenance** - The permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (9VAC5-80-110 and 40 CFR 63.6625(e))
27. **MACT Subpart ZZZZ - Monitoring** - The permittee shall install a non-resettable hour meter on the stationary RICE if one is not already installed. If the permittee opts to utilize an oil analysis program the permittee shall meet the requirements specified in 40 CFR 63.6625(i). (9VAC5-80-110, 40 CFR 63.6625(i) and 40 CFR 63.6625(f))
28. **MACT Subpart ZZZZ - Operation** - The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. (9VAC5-80-110 and 40 CFR 63.6625(h))

### **General Compliance Requirements**

29. **MACT Subpart ZZZZ - General Compliance Requirements** - The permittee shall be in compliance with the emission limitations, operating limitations and other requirements in Subpart ZZZZ that apply to the source at all times. At all times the permittee shall operate and maintain the

affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions as specified in 40 CFR 63.6605.  
(9VAC5-80-110 and 40 CFR 63.6605)

### **Continuous Compliance Requirements**

30. **MACT Subpart ZZZZ - Continuous Compliance** - The permittee shall demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Table 2c to Subpart ZZZZ of Part 63 that apply to the source according to the methods specified in Table 6 to Subpart ZZZZ of Part 63. The permittee shall report each instance in which the permittee did not meet each emission limitation or operating limitation in Tables 2c to Subpart ZZZZ of Part 63 that applies to the source. These deviations shall be reported as specified in 40 CFR 63.6640 (b).  
(9VAC5-80-110, 40 CFR 63.6640(a) and 40 CFR 63.6640(b))
31. **MACT Subpart ZZZZ – Continuous Compliance** - The permittee shall report each instance in which the permittee did not meet the requirements in Table 8 to Subpart ZZZZ of Part 63.  
(9VAC5-80-110 and 40 CFR 63.6640(e))
32. **MACT Subpart ZZZZ – Continuous Compliance** - In order for the engine to be considered an emergency stationary RICE under Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under Subpart ZZZZ and shall meet all requirements for non-emergency engines.  
(9VAC5-80-110 and 40 CFR 63.6640(f))

### **Notifications, Reports, and Recordkeeping**

33. **MACT Subpart ZZZZ - Recordkeeping** - The permittee shall keep the following records:
  - a. A copy of each notification and report that the permittee submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted, according to the requirement in §63.10(b)(2)(xiv).
  - b. Records of the occurrence and duration of each malfunction of operation (i.e. process equipment) or the air pollution control and monitoring equipment.
  - c. Records of all required maintenance performed on the air pollution control and monitoring equipment.
  - d. Records of all actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.



- e. Records required in Table 6 to Subpart ZZZZ to Part 63 to show continuous compliance with each emission or operating limitation that applies to the permittee.
- f. Records of the maintenance conducted on the stationary RICE in order to demonstrate that the source operated and maintained the stationary RICE and after-treatment control device (if any) according to the permittee's maintenance plan.

Records shall be in a form suitable and readily available (in hard copy or electronic form) for expeditious review according to §63.10(b)(1). Each record shall be kept for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record.

(9VAC5-80-110, 40 CFR 63.6655(a), (d), (e), (f) and 40 CFR 63.6660)

- 34. **MACT Subpart ZZZZ – Recordkeeping** - If the emergency stationary RICE does not meet the standards in Subpart ZZZZ applicable to non-emergency engines, the permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The documentation shall include the information specified in 40 CFR 63.6655(f).  
(9VAC5-80-110 and 40 CFR 63.6655(f))
- 35. **MACT Subpart ZZZZ - Reporting** - The permittee shall comply with the applicable requirements in Table 2c (1) and Table 8 to Subpart ZZZZ to Part 63.  
(9VAC5-80-110, 40 CFR 63.6640(b) and 40 CFR 63.6640(e))

## Process Equipment Requirements - Woodworking Operation (ES-WD)

### Limitations

- 36. **Woodworking Equipment Requirements - Limitations** - Particulate emissions from the woodworking process (ES-WD) shall be controlled by closed loop cyclones and fabric filtration at all emission points. All wood residue dust emission points must be controlled by fabric filtration.  
(9VAC5-80-110 and Condition 12 of the May 6, 1983 Permit Document)
- 37. **Woodworking Equipment Requirements - Limitations** - Particulate emissions from each particulate emission point for the woodworking process (ES-WD) shall not exceed the limit specified below:

Pollutant	Limit	Unit of Measure
Particulate Matter (PM)	0.05	gr/scf

(9VAC5-80-110 and 9VAC5-40-2270B)

- 38. **Woodworking Equipment Requirements - Limitations** - Visible emissions from wood residue dust emission points shall not exceed 5 percent opacity as determined by EPA Method 9.  
(9VAC5-80-110 and Condition 12 of the May 6, 1983 Permit Document)

## Monitoring

39. **Woodworking Equipment Requirements - Monitoring** - Daily observations of the presence of visible emissions from each fabric filter stack shall be made when the process is operating. The presence of visible emissions shall require the permittee to:
- Take timely corrective action such that the unit resumes operation with no visible emissions, or,
  - Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are at or below the limits contained in Condition 38. If any of the 15-second observations exceeds 5 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to the opacity limits.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions the results of all VEEs, any necessary corrective action, and the name of the observer. If a unit has not been operated for the entire day, it shall be noted in the log book.

(9VAC5-50-20 E, 9VAC5-80-110 E and K)

40. **Woodworking Equipment Requirements - Operation and Maintenance Procedures** - All air pollution control equipment operators will be trained in the proper operation of all such equipment. The source will develop, in writing, good operating procedures for all air pollution control equipment. A maintenance schedule for all such equipment will be established and made available to the Blue Ridge Regional Office for review. Records of service and maintenance will be maintained on file for a period of five years.
- (9VAC5-80-110 and Conditions 16 and 17 of the May 6, 1983 Permit Document)

## Recordkeeping

41. **Woodworking Equipment Requirements - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
- Scheduled and unscheduled maintenance and operator training.
  - Results of all stack tests, visible emission evaluations, and performance evaluations.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9VAC5-50-50, 9VAC5-80-110 and Condition 16 of the May 6, 1983 Permit Document)

## **Process Equipment Requirements - Finishing and Adhesive Operations (ES-F & ES-SA)**

### **Limitations**

42. **Finishing & Adhesive Equipment Requirements - Limitations** - Particulate emissions from the finishing spray booths shall be controlled by fiberglass filters or equivalent. The spray booths shall be provided with adequate access for inspection.  
(9VAC5-80-110)

43. **Finishing & Adhesive Equipment Requirements - Limitations** - Emissions from the operation of the finishing process shall not exceed the limits specified below:

<b>Pollutant</b>	<b>Hourly Limit</b>	<b>Unit of Measure</b>	<b>Annual Limit</b>	<b>Unit of Measure</b>
Volatile Organic Compounds	500	lbs/hr	350	tons/yr

(9VAC5-80-110 and Condition 13 of the May 6, 1983 Permit Document)

44. **Finishing & Adhesive Equipment Requirements - Limitations** - Hazardous air pollutant (HAP) emissions, as defined by §112(b) of the Clean Air Act, from the wood office furniture manufacturing facility (ES-F and ES-SA) shall not exceed 9.5 tons per year of any individual HAP or 21.8 tons per year of any combination, calculated monthly as the sum of each consecutive 12 month period. HAPs which are not accompanied by a specific CAS number shall be calculated as the sum of all compounds containing the named chemical when determining compliance with the individual HAP emissions limitation of 9.5 tons per year.

(9VAC5-80-110 and Condition 6 of the September 15, 2014 Permit Document)

45. **Finishing & Adhesive Equipment Requirements - Limitations** - Visible emissions from each finishing spray booth shall not exceed twenty (20) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty (30) percent opacity.  
(9VAC5-50-80 and 9VAC5-80-110)

46. **Finishing & Adhesive Equipment Requirements - VOC Work Practice Standards** - At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.

(9VAC5-50-20 F and 9VAC5-80-110)

## Monitoring

47. **Finishing & Adhesive Equipment Requirements - Monitoring** - Daily observations of the presence of visible emissions from each finishing spray booth stack shall be made when the spray booth is operating. The presence of visible emissions shall require the permittee to:
- Take timely corrective action such that the unit resumes operation with no visible emissions, or,
  - Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are at or below the limits contained in Condition 45. If any of the 15-second observations exceeds 20 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to the opacity limits.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions the results of all VEEs, any necessary corrective action, and the name of the observer. If a unit has not been operated for the entire day, it shall be noted in the log book.  
(9VAC5-50-20 E and 9VAC5-80-110 E and K)

## Recordkeeping

48. **Finishing & Adhesive Equipment Requirements - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
- Annual throughput of VOC in tons for the finishing process. The annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
  - Monthly and annual emissions to verify compliance with the individual and total HAP emission limitations in Condition 44. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period. The consecutive 12-month period sums shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
  - Scheduled and unscheduled maintenance and operator training.
  - Results of all stack tests, visible emission evaluations, and performance evaluations.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9VAC5-50-50, 9VAC5-80-110 and Condition 7 of the September 15, 2014 Permit Document)

## **MACT Subpart JJ – National Emission Standards for Wood Furniture Manufacturing Operations – (ES-F & ES-SA)**

### **General Compliance**

49. **MACT Subpart JJ - General Compliance Requirements** - The facility shall be operated in compliance with Federal requirements under 40 CFR 63 Subpart JJ and 40 CFR 63 Subpart A, as identified in Table 1 for Subpart JJ. All terms used regarding 40 CFR 63, Subpart JJ shall have the meanings as defined in 40 CFR 63.801 and 40 CFR 63.2.  
(9VAC5-60-100, 9VAC5-80-110, 40 CFR 63.800 and 40 CFR 63 Subpart A)

### **Emission Limits**

50. **MACT Subpart JJ - Emission Limits** - Volatile Hazardous Air Pollutant (VHAP) emissions from the facility shall not exceed the following limits:
- a. For finishing operations, use any of the following methods:
    - i. Achieve a weighted average VHAP content across all coatings of 1.0 lb VHAP / lb solids for the existing source, as applied;
    - ii. Use compliant finishing materials that meet specifications as described in Table 3 of 40 CFR 63 Subpart JJ;
    - iii. Use a control device which must operate at an efficiency that is equivalent to no greater than 1.0 lb of VHAP for the existing source being emitted per lb of solids used;
    - iv. Use any combination of averaging, compliant finishing materials, and control device(s) such that no greater than 1.0 lb of VHAP for the existing source will be emitted per pound of solids used;
  - b. For cleaning operations, strippable spray booth coatings shall be used that contain no more than 0.8 lb VOC / lb solids, as applied;
  - c. For contact adhesive operations, use either of the following methods;
    - i. Compliant contact adhesives shall be used based on the criteria as described in Table 3 of 40 CFR 63 Subpart JJ;
    - ii. Use a control device which must operate at an efficiency that is equivalent to no greater than 1.0 lb of VHAP for the existing source being emitted per pound of solids used.
  - d. On or after November 21, 2014, formaldehyde emissions from the facility shall be limited by complying with one of the following options:

- i. Limit total formaldehyde (F<sub>total</sub>) use in coatings and contact adhesives to no more than 400 pounds per rolling 12 month period, as applied.
- ii. Use coatings and contact adhesives only if they are low-formaldehyde coatings and contact adhesives, in any wood furniture manufacturing operations. "Low-formaldehyde" means a product concentration of less than or equal to 1.0 percent formaldehyde by weight, as described in a certified product data sheet for the material.

(9VAC5-80-110 and 40 CFR 63.802)

51. **MACT Subpart JJ - Emission Limits** - At all times, the owner or operator shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.  
(9VAC5-60-100, 9VAC5-80-110 and 40 CFR 63.802)

#### **Work Practice Standards**

52. **MACT Subpart JJ - Work Practice Standards** - The permittee shall develop and implement the following work practice standards:
- a. Work practice implementation plan - The permittee shall prepare and maintain a written work practice implementation plan that defines environmentally desirable work practices for each wood furniture operation and addresses each of the work practice standards presented in paragraphs b through l of this condition.
    - i. The implementation plan shall be developed no more than 60 days after the compliance date.
    - ii. The written work practice implementation plan shall be available for inspection by the Administrator upon request. If the Administrator determines that the work practice implementation plan does not adequately address each of the topics specified in §63.803 of Subpart JJ or that the plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the Administrator may require the permittee to modify the plan. Revisions or modifications to the plan do not require a revision of the source's Title V permit.
  - b. Operator training course - The permittee shall train all new and existing personnel, including contract personnel, who are involved in finishing, gluing, cleaning, and washoff operations, use of manufacturing equipment in these operations, or implementation of the requirements of Subpart JJ. All new personnel shall be trained upon hiring. All existing personnel shall be trained within six months of the compliance date. All personnel shall be given refresher training annually. The permittee shall maintain a copy of the training program with the work

practice implementation plan. The training program shall include, at a minimum, the following:

- i. A list of all current personnel by name and job description that are required to be trained;
  - ii. An outline of the subjects to be covered in the initial and refresher training for each position or group of personnel;
  - iii. Lesson plans for courses to be given at the initial and the annual refresher training that include, at a minimum, appropriate application techniques, appropriate cleaning and washoff procedures, appropriate equipment setup and adjustment to minimize finishing material usage and overspray, and appropriate management of cleanup wastes; and
  - iv. A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion.
- c. Inspection and maintenance plan - The permittee shall prepare and maintain with the work practice implementation plan a written leak inspection and maintenance plan that specifies:
- i. A minimum visual inspection frequency of once per month for all equipment used to transfer or apply coatings, adhesives, or organic HAP solvents;
  - ii. An inspection schedule;
  - iii. Methods for documenting the date and results of each inspection and any repairs that were made;
  - iv. The timeframe between identifying the leak and making the repair, which adheres, at a minimum, to the following schedule:
    - (1) A first attempt at repair (e.g., tightening of packing glands) shall be made no later than five calendar days after the leak is detected; and
    - (2) Final repairs shall be made within 15 calendar days after the leak is detected, unless the leaking equipment is to be replaced by a new purchase, in which case repairs shall be completed within three months.
- d. Cleaning and washoff solvent accounting system - The permittee shall develop an organic HAP solvent accounting form to record:
- i. The quantity and type of organic HAP solvent used each month for washoff and cleaning, as defined in §63.801 of Subpart JJ;
  - ii. The number of pieces washed off, and the reason for the washoff; and
  - iii. The quantity of spent organic HAP solvent generated from each washoff and cleaning operation each month, and whether it is recycled onsite or disposed offsite.

- e. Chemical composition of cleaning and washoff solvents - The permittee shall not use cleaning or washoff solvents that contain any of the pollutants listed in Table 4 of Subpart JJ, in concentrations subject to MSDS reporting as required by OSHA.
- f. Spray booth cleaning - The permittee shall not use compounds containing more than 8.0 percent by weight of VOC for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, or metal filters, or plastic filters unless the spray booth is being refurbished. If the spray booth is being refurbished, that is the spray booth coating or other protective material used to cover the booth is being replaced, the permittee shall use no more than 1.0 gallon of organic HAP solvent per booth to prepare the surface of the booth prior to applying the booth coating.
- g. Storage requirements - The permittee shall use normally closed containers for storing finishing, gluing, cleaning, and washoff materials.
- h. Application equipment requirements – As of November 21, 2014, each owner or operator of an affected source shall not use conventional air spray guns except when all emissions from the finishing application station are routed to a functioning control device.
- i. Line cleaning - The permittee shall pump or drain all organic HAP solvent used for line cleaning into a normally closed container.
- j. Gun cleaning - The permittee shall collect all organic HAP solvent used to clean spray guns into a normally closed container.
- k. Washoff operations - The permittee shall control emissions from washoff operations by:
  - i. Using normally closed tanks for washoff; and
  - ii. Minimizing dripping by tilting or rotating the part to drain as much solvent as possible.
- l. Formulation assessment plan for finishing operations - The permittee shall prepare and maintain with the work practice implementation plan a formulation assessment plan that:
  - i. Identifies VHAP from the list presented in Table 5 of Subpart JJ (List of VHAP of Potential Concern Identified by the Industry) that are being used in finishing operations;
  - ii. Establishes a baseline level of usage for each VHAP identified in Table 5 of Subpart JJ. The baseline usage level shall be the highest annual usage from 1994, 1995, or 1996, for each VHAP identified, except for formaldehyde and styrene which shall be determined as specified by §63.803 (1)(2). Sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system, which is determined using the equation in §63.805 (d) or (e).

For VHAPs that do not have a baseline, one will be established according to Condition vi. of this subsection.



- iii. Tracks the annual usage of each VHAP identified in Table 5 of Subpart JJ that is present in amounts subject to MSDS reporting as required by OSHA.
- iv. If the annual usage of the VHAP identified in Table 5 of Subpart JJ exceeds its baseline level, then the permittee of the facility shall provide a written notification to the Blue Ridge Regional Office that describes the amount of the increase and explains the reasons for exceedance of the baseline level. The following explanations would relieve the owner or operator from further action, unless the affected source is not in compliance with any State regulations or requirements for that VHAP:
  - (1) The exceedance is no more than 15.0 percent above the baseline level;
  - (2) Usage of the VHAP is below the de minimis level presented in Table 5 for that VHAP (sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system, which is determined using the procedures in §63.805 (d) or (e);
  - (3) The affected source is in compliance with its State's air toxic regulations or guidelines for the VHAP; or
  - (4) The source of the pollutant is a finishing material with a VOC content of no more than 1.0 lb VOC / lb solids, as applied.
- v. If none of the explanations listed in paragraph iv of this condition are the reason for the increase, the permittee shall confer with the Blue Ridge Regional Office to discuss the reason for the increase and whether there are practical and reasonable technology-based solutions for reducing the usage. The evaluation of whether a technology is reasonable and practical shall be based on cost, quality, and marketability of the product, whether the technology is being used successfully by other wood furniture manufacturing operations, or other criteria mutually agreed upon by the Blue Ridge Regional Office and the Administrator and owner or operator. If there are no practical and reasonable solutions, the facility need take no further action. If there are solutions, the owner or operator shall develop a plan to reduce usage of the pollutant to the extent feasible. The plan shall address the approach to be used to reduce emissions, a timetable for implementing the plan, and a schedule for submitting notification of progress.
- vi. If the facility uses a VHAP of potential concern listed in Table 6 of Subpart JJ for which a baseline level has not been previously established, then the baseline level shall be established as the de minimis level provided in that same table for that chemical. The permittee shall track the annual usage of each VHAP of potential concern identified that is present in amounts subject to MSDS reporting as required by OSHA. If usage of the VHAP of potential concern exceeds the de minimis level listed in Table 6 of Subpart JJ for that chemical, then the permittee shall provide an explanation to the Blue Ridge Regional Office that documents the reason for exceedance of the de minimis level. If the explanation is not one of those listed in paragraph iv. of this condition, the affected source shall follow the procedures established in paragraph v. of this condition.

## Continuous Compliance

53. **MACT Subpart JJ - Continuous Compliance** - Continuous compliance with the VHAP emissions limits shall be determined as described. See Conditions 57 and 58 for content and timing of report submissions and signature requirements.

- a. For finishing operations, the permittee shall demonstrate continuous compliance by submitting the results of the averaging calculation (Equation 1) for each month within that semiannual period and submitting a compliance certification with the semiannual report.
  - i. The compliance certification shall state that the value of (E), as calculated by Equation 1, is no greater than 1.0 for the existing source. The facility is in violation of the standard if E is greater than 1.0 for an existing source for any month.

$$E = (M_{c1}C_{c1} + M_{c2}C_{c2} + \dots + M_{cn}C_{cn} + S_1W_1 + S_2W_2 + \dots + S_nW_n) / (M_{c1} + M_{c2} + \dots + M_{cn})$$

Equation 1

E = the emission limit achieved by an emission point or a set of emission points, in lb VHAP / lb solids.

$M_c$  = the mass of solids in a finishing material or coating (c) used monthly, including exempt finishing materials and coatings, lb solids/month.

$C_c$  = the VHAP content of a finishing material or coating (c), in pounds of VHAP per pound of coating solids.

S = the VHAP content of a solvent, expressed as a weight fraction, added to finishing materials or coatings.

W = the amount of solvent, in pounds, added to finishing materials and coatings during the monthly averaging period.

The Emission Limit (E in lb VHAP / lb solids) equals the sum, for all finishing materials and coatings, of the mass of solids in each material used within that month ( $M_c$  in lb solids / month) multiplied by the VHAP content in each material ( $C_c$  in lb VHAP / lb solids) plus the sum, for all solvents, of the mass of solvent used monthly (W in lb solvent / month) multiplied by the weight fraction of VHAP in the solvent (S in lb VHAP / lb solvent), with this total being divided by the sum, for all finishing materials and coatings, of the mass of solids in each finishing material and coating used within that month ( $M_c$  in lb solids / month).

- ii. A violation of the monthly average is a separate violation of the standard for each day of operation during the month, unless the affected source can demonstrate through records that the violation of the monthly average can be attributed to a particular day or days during the period.
- b. For finishing operations using compliant finishing materials (as specified in §63.804(a)(2)(i) – (iii) or §63.804(d)(2)(i)-(iii)), the permittee shall demonstrate continuous compliance by using compliant coatings and thinners, maintain records that demonstrate the finishing materials and thinners are compliant, and submit a compliance certification with the semiannual report required by §63.807(c).

- i. The compliance certification shall state that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance.
  - ii. The facility is in violation of the standard whenever a noncompliant coating, as demonstrated by records or by a sample of the coating, is used.
- c. For finishing operations using compliant finishing materials and applying coatings using continuous coaters, the permittee shall demonstrate continuous compliance by meeting either of the following:
  - i. Use compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, use compliant thinners, and submit a compliance certification with the semiannual report required by §63.807(c).
    - (1) The compliance certification shall state that compliant coatings have been used each day in the semiannual reporting period, or should otherwise identify the days of noncompliance and the reasons for noncompliance.
    - (2) The facility is in violation of the standard whenever a noncompliant coating, as determined by records or by a sample of the coating, is used. Use of a noncompliant coating is a separate violation for each day the noncompliant coating is used.
  - ii. Use compliant coatings, as determined by the VHAP content of the coating in the reservoir, use compliant thinners, maintain a viscosity of the coating in the reservoir that is no less than the viscosity of the initial coating by monitoring the viscosity with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added. Maintain records of solvent additions and submit a compliance certification with the semiannual report required by §63.807(c).
    - (1) The compliance certification shall state that compliant coatings, as determined by the VHAP content of the coating in the reservoir, have been used each day in the semiannual reporting period. Additionally, the certification shall state that the viscosity of the coating in the reservoir has not been less than the viscosity of the initial coating, that is, the coating that is initially mixed and placed in the reservoir, for any day in the semiannual reporting period.
    - (2) The facility is in violation of the standard when a sample of the as-applied coating exceeds the applicable limit, as determined using EPA Method 311, or the viscosity of the coating in the reservoir is less than the viscosity of the initial coating.
- d. For finishing operations using a control system with an overall control efficiency (R) such that the value of  $E_{ac}$  in Equation 2 is no longer greater than 1.0 lb VHAP / lb solid, the permittee shall demonstrate continuous compliance by installing, calibrating, maintaining, and

operating the appropriate monitoring equipment according to manufacturer's specifications. The permittee shall also submit an excess emissions and continuous monitoring system performance report and summary report as required by §63.807(d) and §63.10 (e) of Subpart A.

$$R = [(E_{bc} - E_{ac}) / E_{bc}] (100)$$

Equation 2

The value of  $E_{bc}$  in Equation 2 shall be calculated using Equation 1

- i. Where a capture/control device is used, a device to monitor each site-specific operating parameter established in accordance §63.804(f)(6)(i) is required.
  - ii. Where a thermal incinerator is used, a temperature monitoring device equipped with a continuous recorder is required as described in §63.804(g)(4)(ii). For catalytic incinerators equipped with a fluidized catalyst bed, a constant pressure drop must be maintained, measured monthly, across the catalyst bed.
  - iii. Where a carbon adsorber is used, the permittee must adhere to the requirements described in §63.804(g)(4)(iii).
  - iv. The permittee shall not operate the capture or control device at a daily average value greater than or less than (as appropriate) the operating parameter values. The daily average shall be calculated as the average of all values for a monitored parameter recorded during the operating day.
  - v. If the permittee uses a control device not listed in 63.804(f)(4), they must submit for the Administrator's approval, a description of the device, test data verifying performance, and appropriate site-specific operating parameters that will be monitored to demonstrate continuous compliance with the standard.
- e. For finishing operations any of the following compliance methods may be used: 1) an averaging approach, as in Condition 53.a; 2) compliant coatings, as in Conditions 53.b and 53.c; 3) a control system as in Condition 53.d; or 4) a combination of these methods.
  - f. For contact adhesive operations that use compliant adhesives to show initial compliance, the permittee shall submit a compliance certification with the semiannual report as required by §63.807(c).
    - i. The compliance certification shall state that compliant contact and/or foam adhesives have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant contact and/or foam adhesives were used.
    - ii. Each day a noncompliant contact or foam adhesive is used constitutes a single violation of the standard.

- g. For contact adhesive operations that use a control system with an overall control efficiency (R) such that the  $G_{ac}$  value (Equation 3) is no greater than 1.0 for an existing source, the permittee shall demonstrate continuous compliance by installing, calibrating, maintaining, and operating the appropriate monitoring equipment according to the manufacturer's specifications. The permittee shall also submit the excess emissions and continuous monitoring system performance report and summary required by §63.807(d) and §63.10(e) of Subpart A.

$$R = [(G_{bc} - G_{ac}) / G_{bc}] (100)$$

Equation 3

G = the VHAP content of a contact adhesive, in lb VHAP / lb solids, as applied.

ac = after the control system is installed and operated.

bc = before control.

- i. Where a capture/control device is used, a device to monitor each site-specific operating parameter established in accordance with §63.804(f)(6)(i) is required.
  - ii. Where an incinerator is used, a temperature monitoring device equipped with a continuous recorder is required. For catalytic incinerators equipped with a fluidized catalyst bed, a constant pressure drop must be maintained, measured monthly, across the catalyst bed.
  - iii. Where a carbon adsorber is used, the permittee must adhere to the requirements described in §63.804(g)(6)(iii).
  - iv. The permittee shall not operate the capture or control device at a daily average value greater than or less than (as appropriate) the operating parameter values. The daily average shall be calculated as the average of all values for a monitored parameter recorded during the operating day.
  - v. If the permittee uses a control device not listed in 63.804(f)(6), they must submit for the Administrator's approval, a description of the device, test data verifying performance of the device, and appropriate operating parameter values that will be monitored to demonstrate continuous compliance with the standard.
- h. For strippable spray booth coatings the permittee shall submit a compliance certification with the semiannual report as required by §63.807(c). The compliance certification shall state that compliant strippable spray booth coatings have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant materials were used. Each day a noncompliant strippable booth coating is used constitutes a single violation of the standard.
- i. For work practice standards the permittee shall submit a compliance certification with the semiannual report. The compliance certification shall state that the work practice implementation plan is being followed, or should otherwise identify the provisions of the plan

that have not been implemented and each day the provisions were not implemented. During any period of time that the permittee is required to implement the provisions of the plan, each failure to implement an obligation under the plan during any particular day is a violation and the Administrator may require the permittee to modify the plan specified in Condition 52.a.

j. Formaldehyde Limitations:

- i. Calculate total formaldehyde emissions from all finishing materials and contact adhesives used at the facility using the following equation and maintain a value of  $F_{total}$  no more than 400 pounds per rolling 12 month period.

$$F_{total} = (C_{f1}V_{c1} + C_{f2}V_{c2} + \dots + C_{fn}V_{cn} + G_{f1}V_{g1} + G_{f2}V_{g2} + \dots + G_{fn}V_{gn})$$

Equation 5

Where:

$F_{total}$  = total formaldehyde emissions in each rolling 12 month period

$C_f$  = the formaldehyde content of a finishing material (c), in pounds of formaldehyde per gallon of coating (lb / gal)

$V_c$  = the volume of formaldehyde-containing finishing material (c), in gal

$G_f$  = the formaldehyde content of a contact adhesive (g), in pounds of formaldehyde per gallon of contact adhesive (lb / gal)

$V_g$  = the volume of formaldehyde-containing contact adhesive (g), in gal

- ii. Use a control system with an overall control efficiency (R) such that the calculated value of  $F_{total}$  in the following equation is no more than 400 pounds per rolling 12 month period.

$$F_{total} = (C_{f1}V_{c1} + C_{f2}V_{c2} + \dots + C_{fn}V_{cn} + G_{f1}V_{g1} + G_{f2}V_{g2} + \dots + G_{fn}V_{gn}) * (1-R)$$

Equation 6

Where:

$F_{total}$  = total formaldehyde emissions in each rolling 12 month period

$C_f$  = the formaldehyde content of a finishing material (c), in pounds of formaldehyde per gallon of coating (lb / gal)

$V_c$  = the volume of formaldehyde-containing finishing material (c), in gal

$G_f$  = the formaldehyde content of a contact adhesive (g), in pounds of formaldehyde per gallon of contact adhesive (lb / gal)

$V_g$  = the volume of formaldehyde-containing contact adhesive (g), in gal

R = the overall efficiency of the control system, expressed as a percentage

- iii. To demonstrate compliance for low-formaldehyde coatings and contact adhesives, the permittee must maintain a certified product data sheet for each coating and contact adhesive used, as required by §63.806(b)(1), and submit a compliance certification with the semiannual report required by §63.807(c).

(9VAC5-60-100, 9VAC5-80-110, 40 CFR 63.804, and 40 CFR 63.8)

### Testing

54. **MACT Subpart JJ - Testing** - If performance testing occurs, the test(s) shall be conducted using the test methods and procedures as specified in 40 CFR 63.805 of Subpart JJ.  
(9VAC5-60-100, 9VAC5-80-110 and 40 CFR 63.805)

### Submittals

55. **MACT Subpart JJ - Submittals** - All submittals regarding 40 CFR 63, Subpart JJ to the Administrator shall be sent to EPA Region III and Blue Ridge Regional Office at the following addresses:

U.S. EPA Region III  
Air Protection Division (3AP00)  
ATTN: Wood Furniture NESHAP Coordinator  
1650 Arch Street  
Philadelphia, PA 19103-2029

Virginia Department of Environmental Quality  
Blue Ridge Regional Office  
Attn: Air Compliance Manager  
901 Russell Drive  
Salem, Virginia 24153

(9VAC5-60-100, 9VAC5-80-110, and 40 CFR 63.13)

### Recordkeeping

56. **MACT Subpart JJ - Recordkeeping** - The permittee shall maintain records of the following:
- a. For emission limit purposes, the permittee shall maintain records of the following:
    - i. A certified product data sheet for each finishing material, thinner, contact adhesive, and strippable spray booth coating subject to the emission limits in §63.802;
    - ii. The VHAP content, in lb VHAP / lb solids, as applied, of each finishing material and contact adhesive subject to the emission limits in §63.802; and
    - iii. The VOC content, in lb VOC / lb solids, as applied, of each strippable booth coating subject to the emission limits in §63.802 (a)(3) or (b)(3).
    - iv. The formaldehyde content, in lb / gal, as applied, of each finishing material and contact adhesive subject to the emission limits in §63.802(a)(4) or (b)(4) and chooses to comply with the 400 lb / yr limits on formaldehyde in §63.802(a)(4) (i) or (b)(4) (i).

- b. Following the compliance method in §63.804(a)(1) or (d)(1), the permittee shall maintain copies of the averaging calculation for each month following the compliance date, as well as the data on the quantity of coatings and thinners used that is necessary to support the calculation of E in Equation 1 (as defined in Condition 53).
- c. The permittee following the compliance procedures of §63.804(f)(3)(ii) and (g)(3)(ii) shall maintain the records required by Condition 56.a (§63.806(b)) as well as the following:
  - i. Solvent and coating additions to the continuous coater reservoir;
  - ii. Viscosity measurements; and
  - iii. Data demonstrating that viscosity is an appropriate parameter for demonstrating compliance.
- d. The permittee shall maintain onsite the work practice implementation plan and all records associated with fulfilling the requirements of that plan, including, but not limited to:
  - i. Records demonstrating that the operator training program required by §63.803(b) (Condition 52.b) is in place;
  - ii. Records collected in accordance with the inspection and maintenance plan required by §63.803(c) (Condition 52.c.);
  - iii. Records associated with the cleaning solvent accounting system required by §63.803(d) (Condition 52.d.);
  - iv. Records associated with the limitation on the use of conventional air spray guns showing total finishing material usage and the percentage of finishing materials applied with conventional air spray guns for each semiannual period required by Condition 52.h;
  - v. Records associated with the formulation assessment plan required by §63.803(l) (Condition 52.l); and
  - vi. Copies of documentation such as logs developed to demonstrate that the other provisions of the work practice implementation plan are followed.
- e. The permittee following the compliance method §63.804 (f)(4) or (g)(4) shall maintain copies of the calculations demonstrating that the overall control efficiency (R) of the control system results in the value of  $E_{ac}$  required by Equations 2 or 4, records of the operating parameter values, and copies of the semiannual compliance reports required by §63.807(d).
- f. The permittee following the compliance method §63.804 (f)(6) or (g)(6) shall maintain copies of the calculations demonstrating that the overall control efficiency (R) of the control system results in the applicable value of  $G_{ac}$  calculated by Equation 3, records of the operating parameter values, and copies of the semiannual compliance reports required by §63.807(d).



$$R = [(G_{bc} - G_{ac}) / G_{bc}] (100)$$

Equation 3

G = the VHAP content of a contact adhesive, in lb VHAP / lb solids, as applied.

ac = after the control system is installed and operated.

bc = before control.

- g. The permittee shall maintain records of the compliance certifications submitted in accordance with §63.807(c) for each semiannual period following the compliance date.
- h. The permittee shall maintain records of all other information submitted with the compliance status report required by §63.9(h) and §63.807(b) and the semiannual reports required by §63.807(c).
- i. The permittee shall maintain all records in accordance with the requirements of §63.10(b)(1).
- j. The permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control equipment and monitoring equipment. The permittee shall maintain records of actions taken during periods of malfunction to minimize emissions in accordance with §63.802(c), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(9VAC5-60-100, 9VAC5-80-110, and 40 CFR 63.806)

## Reporting

57. **MACT Subpart JJ - Reporting** - Reporting not otherwise required by this permit shall consist of the following:
- a. When demonstrating continuous compliance, the permittee shall submit a report required by §63.807 covering the previous 6 months of wood furniture manufacturing operations:
    - i. The first report shall be submitted 30 calendar days after the end of the first 6-month period following the compliance date.
    - ii. Subsequent reports shall be submitted 30 calendar days after the end of each 6-month period following the first report.
    - iii. The semiannual reports shall include the information required by Condition 53, a statement of whether the facility was in compliance or noncompliance, and, if the facility was in noncompliance, the measures taken to bring the facility into compliance.
    - iv. The frequency of the reports required by paragraph b of this condition shall not be reduced from semiannually regardless of the history of the owner's or operator's compliance status.

- b. The permittee when demonstrating continuous compliance shall submit the excess emissions and continuous monitoring system performance report and summary report required by §63.10(e) of Subpart A. If the source experiences excess emissions, the report shall be submitted quarterly for at least 1 year after the excess emissions occur and until a request to reduce reporting frequency is approved. If no excess emissions occur, the report shall be submitted semiannually. All excess emissions and monitoring system performance reports and all summary reports, if required, shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate.
- c. The permittee, when required to provide a written notification by Condition 52.l.iv. for exceedance of a baseline level [§63.803(l)(4)], shall include in the notification one or more statements that explains the reasons for the usage increase. The notification shall be submitted no later than 30 calendar days after the end of the annual period in which the usage increase occurred.

(9VAC5-60-100, 9VAC5-80-110, and 40 CFR 63.807)

#### **Notification of Compliance**

58. **MACT Subpart JJ - Notification of Compliance** - Each time a notification of compliance status is required, the permittee shall submit to the appropriate Blue Ridge Regional Office and/or the Administrator a notification of compliance status according to §63.9(h), signed by a responsible official of the company that owns or operates the facility who shall certify its accuracy, attesting to whether the source has complied with Subpart JJ. The notification shall list:
- a. The methods that were used to determine compliance;
  - b. The results of any performance tests, opacity or visible emission observations, continuous monitoring system (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted;
  - c. The methods that will be used for determining continuing compliance, including a description of monitoring and reporting requirements and test methods;
  - d. The type and quantity of hazardous air pollutants emitted by the source, reported in units and averaging times and in accordance with the test methods specified;
  - e. An analysis demonstrating whether the facility is a major source or an area source (using the emissions data generated for this notification);
  - f. A description of the air pollution control equipment (or method) for each emission point, including each control device (or method) for each hazardous air pollutant and the control efficiency (percent) for each control device (or method); and
  - g. A statement by the permittee as to whether the facility has complied with Subpart JJ as expressed in this permit.

- h. If low-formaldehyde coatings and contact adhesives are being used to comply with the formaldehyde limit, a statement that low-formaldehyde coatings and contact adhesives, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a coating or contact adhesive that is not low-formaldehyde, as demonstrated by records or by a sample of the coating or contact adhesive, is used. Use of a noncompliant coating or contact adhesive is a separate violation for each day the noncompliant coating or contact adhesive is used.

(9VAC5-60-100, 9VAC5-80-110, 40 CFR 63.804(h) and 40 CFR 63.9(h))

### Insignificant Emission Units

59. Insignificant Emission Units - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720B)	Rated Capacity (9VAC5-80-720C)
B5	1961 Engineering & Supply Company (installed 2004) natural gas-fired boiler	9VAC5-80-720B	NO <sub>x</sub> , CO, PM, SO <sub>2</sub> and VOC	---

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110.  
 (9VAC5-80-110)

### Permit Shield & Inapplicable Requirements

60. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
---	---	No Inapplicable Requirements were included in the permit application (Optional Page 3).

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to

obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.  
(9VAC5-80-110 and 9VAC5-80-140)

## **General Conditions**

61. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.  
(9VAC5-80-110)
62. **General Conditions - Permit Expiration**
- a. This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
  - b. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
  - c. If an applicant submits a timely and complete application for an initial permit or renewal under 9VAC5-80-80 F, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.
  - d. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
  - e. If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
  - f. The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

63. **General Conditions - Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

- a. The date, place as defined in the permit, and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

(9VAC5-80-110)

64. **General Conditions - Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9VAC5-80-110)

65. **General Conditions - Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
- b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
  - i. Exceedances of emissions limitations or operational restrictions;
  - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring or periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
  - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semiannual reporting period."

(9VAC5-80-110)

66. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
- b. The identification of each term or condition of the permit that is the basis of the certification;
- c. The compliance status;
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9VAC5-80-110, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:  
R3\_APD\_Permits@epa.gov

(9VAC5-80-110)

67. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Blue Ridge Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The

occurrence should also be reported in the next semiannual compliance monitoring report pursuant to Condition 65 of this permit.  
(9VAC5-80-110 F. 2)

68. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall no later than four daytime business hours after the malfunction is discovered, notify the Blue Ridge Regional Office such failure or malfunction and within 14 days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Blue Ridge Regional Office.  
(9VAC5-80-110 and 9VAC5-20-180)
69. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.  
(9VAC5-80-110)
70. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.  
(9VAC5-80-110)
71. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.  
(9VAC5-80-110)
72. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.  
(9VAC80-110, 9VAC5-80-190, and 9VAC5-80-260)
73. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.  
(9VAC5-80-110)
74. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board

copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.  
(9VAC5-80-110)

75. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.  
(9VAC5-80-110)
76. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit was issued under 9VAC5-80-50 through 9VAC5-80-300 shall pay annual emissions fees, as applicable, consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 and annual maintenance fees, as applicable, consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350.  
(9VAC5-80-110, 9VAC5-80-310 et seq., and 9VAC5-80-2310 et seq.)
77. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
  - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
  - c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
  - d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
  - e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
- (9VAC5-80-110 and 9VAC5-50-50)
78. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on



information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9VAC5-80-110 and 9VAC5-50-20 E)

79. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.  
(9VAC5-80-110)

80. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9VAC5-80-110)

81. **General Conditions - Reopening for Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

(9VAC5-80-110)

- 82. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9VAC5-80-110 and 9VAC5-80-150)

- 83. **General Conditions - Transfer of Permits**

- a. No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
- b. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.
- c. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.

(9VAC5-80-110 and 9VAC5-80-160)

- 84. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

(9VAC5-80-110, 9VAC5-80-190 C, and 9VAC5-80-260)

- 85. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9VAC5-80-110 and 9VAC5-80-80 E)

- 86. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI

(Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.  
(9VAC5-80-110 and 40 CFR Part 82)

87. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).  
(9VAC5-60-70 and 9VAC5-80-110)
88. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.  
(9VAC5-80-110 and 40 CFR Part 68)
89. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.  
(9VAC5-80-110)
90. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
  - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
  - c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.
- (9VAC5-80-110)